

ABSTRACT

A DMA controller includes at least one peripheral DMA channel for handling DMA transfers on a peripheral access bus; at least one memory
5 DMA stream, including a memory destination channel and a memory source channel, for handling DMA transfers on first and second memory access buses; first and second address computation units for computing updated memory addresses for DMA transfers; first and second memory pipelines for supplying memory addresses to the first and second memory access
10 buses, respectively, and for transferring data on the first and second memory access buses; and a multiplexer configured to supply first and second current memory addresses to selected ones of the first and second memory pipelines in response to a control signal.

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